

AMENDMENTS TO THE CLAIMS

1. (canceled)

2. (currently amended): An isolated host cell comprising

(a) a recombinant polyketide synthase gene that encodes a loading module comprising an inactivated beta-ketoacylsynthase (KS^Q) domain, an acyl transferase (AT) domain specific for ethylmalonyl CoA, and an acyl carrier protein (ACP) domain, and

(b) a recombinant gene selected from the group consisting of a crotonyl CoA reductase (*ccr*) from *Streptomyces coelicolor*, a *cet* from *Streptomyces cinnamonensis*, a *ccr* from *Streptomyces collinus*, a *ccr* from *Streptomyces fradiae*, an isobutyryl CoA mutase (*icm*) from *Streptomyces cinnamonensis*, and a combination thereof.

3-6. (canceled)

7. (previously presented): The host cell of claim 2, wherein the recombinant polyketide synthase gene further comprises two or more extender modules, wherein at least one extender module has an AT domain specific for malonyl CoA.

8. (previously presented): The host cell of claim 2, wherein the recombinant polyketide synthase gene further comprises five or six extender modules, wherein at least one extender module has an AT domain specific for malonyl CoA.

9. (previously presented): The host cell of claim 2, wherein the recombinant polyketide synthase gene further comprises six extender modules specific for methylmalonyl CoA.

10-16. (canceled)

17. (previously presented): The host cell of claim 2, which is a *Saccharopolyspora* host cell.

18. (previously presented): The host cell of claim 2, which is a *Streptomyces* host cell.
19. (previously presented): The host cell of claim 2, which is an *E. coli* host cell.